



# MISCELLANEOUS LAND USE PERMIT GEOPHYSICAL EXPLORATION APPLICATION

State of Alaska  
Department of Natural Resources, Division of Oil & Gas  
550 W. 7th Ave, Suite 1100, Anchorage, AK 99501-3563  
Phone: 907-269-8800 Fax: 907-269-8943  
Permitting Email: [dog.permitting@alaska.gov](mailto:dog.permitting@alaska.gov)



## SECTION I: APPLICANT INFORMATION

<b>1. Applicant:</b>	<b>2. Applicant Contact:</b>
Name: Global Geophysical Services, Inc.	First Name: Jameson Last Name: White
Mailing Address: 7720 King St	Title: Project Manager
City: Anchorage	Is the Mailing Address the same as Applicant's Mailing Address? If "No", please provide information below: <input checked="" type="checkbox"/> Yes
State: AK Zip Code: 99518	Mailing Address: 7720 King St.
Phone: 907-336-2801 Fax: Enter Fax.	City: Anchorage State: AK Zip Code: 99518
Email: <a href="http://www.globalgeophysical.com">www.globalgeophysical.com</a>	Phone: 907-336-2801(main) 281-605-9863(cell) Fax: Enter Fax.
	Email: <a href="mailto:Jameson.White@GlobalGeophysical.com">Jameson.White@GlobalGeophysical.com</a>

## SECTION II: THIRD PARTY INFORMATION

(Fill out this section only if you are applying for the Applicant)

## SECTION III: APPLICATION DATE AND NUMBER

(FOR DIVISION USE ONLY)

Third Party Company Name: SLR International Corporation	Application Date:
First Name: Michelle Last Name: Turner	
Title: Principal Scientist	
Mailing Address: 2700 Gambell Street, Suite 200	
City: Anchorage	
State: AK Zip Code: 99503	
Phone: 907-264-6931 Fax: 907-222-1113	
Email: <a href="mailto:mturner@slrconsulting.com">mturner@slrconsulting.com</a>	
Describe the affiliation to the Applicant: Consultant	Application Number:

## SECTION IV: PROJECT DESCRIPTION

1. Project Name:	South Kenai 2D Program
2. Proposed Start Date:	3/1/2016
3. Project Activities:	

A. Describe what and where:

Hilcorp Alaska, LLC (Hilcorp) contracted Global Geophysical Services, Inc. (Global) to conduct an onshore 2D seismic survey on the southern Kenai Peninsula within the Kenai Peninsula Borough (KPB). The goal of this survey is to identify new oil and gas reserves on the southern Kenai Peninsula. The program will acquire seismic data for approximately 50 linear surface miles as shown on the attached figures. No shorelands, tidelands, or submerged lands are included in this project.

### **SCHEDULE**

Survey activities are planned to take place from March 1 through May 31, 2016 [see project schedule in Section V]. The project team will have a community meeting in the project vicinity prior to the project start. Plans are being made to hold a meeting in the Anchor Point area in late February.

### **SEISMIC SURVEY DETAILS**

Shothole seismic is the proposed data acquisition method for this project, however vibroseis may be used in the Anchor Point region. The energy from the explosive charge or vibration will travel down to the various rock layers and gas bearing zones, and be reflected back and recorded by standalone recording units. Data will be acquired using Global's AutoSeis™ Land HDR patented autonomous nodal acquisition platform and Sercel SG-10 geophones.

A total of 800 sources will be spaced approximately 330 feet apart. The seismic source (shot) holes will be approximately three inches in diameter and will be drilled to a target depth of 35 feet. The planned charge size is 1.1 kg (2.4 lbs.) or 2.2 kg (4.9 lbs.) depending on testing results. A total of 2,400 receivers will be placed spaced at 110 feet. If the vibroseis method is employed, the energy source will be provided by 80,000 pound force AHV-IV rubber tracked vibrators. The source and receiver locations will be surveyed prior to drilling to identify hazards and place controls.

Access to the project site will be via existing roads where possible. Snowmachines will be used for off-road access. In the event that there is insufficient snow cover, all-terrain vehicles (ATVs) such as Kubota RTV may be used.

Shothole drilling will be helicopter supported. No mulching equipment is required for the South Kenai 2D Seismic Survey. If required, an area of approximately 8 to 10 foot in diameter will be cleared around shothole locations to allow access for the drill rig. Clearing will be done using hand-held equipment (e.g., chainsaws) to minimize surface impacts. Vibroseis methods will only be used in areas where no vegetation clearing is required. After the drilling and surveying is progressed to cover a reasonable area, recording equipment will be mobilized to the survey site and data acquisition will commence. When testing is completed, all holes will be backfilled and program related debris removed.

### **ACCESS AND LOGISTICS**

Equipment and personnel will mobilize from Deadhorse and Anchorage to the project area. A local base of operations will be established on private property between Anchor Point and Ninilchik, either at personnel housing or at a staging location. Personnel will be housed locally in lodges or other commercial lodging for the duration of the project. A total of 36 individuals will be part of the seismic field personnel, including support personnel. Operations will be conducted on an average of a 12-hour day. Efforts will be made to hire community members and utilize local resources for select support positions.

Lands that will be accessed as part of the project include State of Alaska lands, KPB lands, Native Corporation lands, and private lands. No federal lands will be accessed for this project. Global will obtain necessary permits prior to accessing any lands and will coordinate with landowners to identify potential hazards, structures, and wells. The International Association of Geophysical Contractors (IAGC) recommended setback will be used from infrastructure.

Setbacks for shothole locations from anadromous streams will follow the guidelines of the Alaska Department of Fish and Game (ADF&G), but generally will be 100 feet or more. Frozen streams may be crossed using low-pressure vehicles (i.e., ATVs and snowmachines). Open water areas will not be crossed; access will be via existing roads or helicopter only.

## **BLOWOUT AND UNEXPLODED CHARGES**

All blowouts will be recorded by the shooter and communicated to the Observer in the field by radio who will then record the blowout in the Observer Log for the day and project. The shooter will make all attempts to fill in any residual hole with the debris loosened by the blowout. If the shooter is unable to completely fill the hole, a team will be tasked to return to the site to fill the hole with gravel and dirt. Upon completion of the project, a team will return to each blowout location to record the final situation and refill if needed. Should a charge be designated "bad cap" and the charge cannot be detonated, the lead wires will be cut no less than 3 feet below the ground surface and shunted. Shothole charges can only be set off by Global personnel - the charge requires a coded signal from specialized equipment to be sent along the leads, to explode. The charge is designed to deteriorate and become non-explosive within a couple of months of being placed in the shothole.

B. Number of Line Miles (2D) and/or Square Miles (3D): Approximately 50 linear surface miles

C. Waste Management:

All wastes generated as part of the survey will be removed on a regular basis as needed for disposal at an approved KPB landfill, transfer station, or other approved site. Expected waste streams are domestic-type waste (e.g., food waste, paper, glass, cans, cardboard, paper), construction waste (e.g., wood, metal, ropes, concrete), operational waste (e.g., plastics, waste metal, wood, plastic flagging, electrical/geophone cable), packing waste, and small amounts of hazardous wastes.

All team members will actively work to prevent spills. If hydraulic oil or other chemicals are spilled, then residue will be collected and disposed through the appropriate waste disposal contractor or at the landfill waste collection location. Hazardous wastes (e.g., small quantities of aerosol cans, solvent, or similar), batteries, bandages or medical waste, absorbent pads, and oily filters will be segregated onsite and disposed of at an approved disposal facility. The appropriate approved disposal contractors and facility will be utilized, and these facilities include: Peninsula Scrap and Salvage (Metal Recycling), Anchor Point Borough waste transfer site, Central Peninsula landfill and special waste collection area, or NRC Alaska, LLC (formerly Emerald Services, Inc.).

[Click here to enter text.](#)

D. Staging and Storage Areas:

### **STAGING AND STORAGE AREAS**

Equipment and personnel will mobilize from Deadhorse and Anchorage to the project area. A local base of operations will be established on private property between Anchor Point and Ninilchik, either at personnel housing or at a staging location. Staging areas for the storage of project equipment and materials will be established on private land (exact locations have not been identified). Personnel will be housed locally in lodges or other commercial lodging for the duration of the project. A total of 36 individuals will be part of the seismic field personnel, including support personnel. Operations will be conducted on an average of a 12-hour day.

### **FUEL HANDLING**

A maximum of 2,000 gallons of fuel for snowmachines/ATVs will be staged at an equipment staging area. Fuel will be purchased from a commercial source and trucked to the project site as necessary. Field vehicles will be maintained, inspected, and fueled prior to departure to the line. Environmental protection from over-filling is provided by:

- Integral secondary containment and drip containment liners placed under all hose connections,
- Determinations of fuel quantities prior to transfer, and
- Continuous observation by a minimum of two personnel members during all fuel transfers.

Drip pans or liners will be used at valves or other locations where leaks are likely to occur. Spill response equipment will be staged near fuel project locations and in all vehicles to mitigate environmental impacts and to provide a timely response. Spill response procedures will be outlined in Global's Spill, Prevention, Control and Countermeasure (SPCC) Plan.

E. Airstrips and Landing Zones:

Helicopter support will be used primarily to sling the drill rig, equipment, and supplies in or out of remote access areas, and will not be landing outside of designated landing zones (except in an emergency situation). Helicopters will be staged at the Homer Airport and will be inspected prior to departure to the line. All helicopter maintenance and fueling will be performed at the Homer airport or other commercial airport facility.

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F. Historical Properties and Cultural Resources:

Based upon consultation with the State Historic Preservation Office (SHPO), an analysis of known cultural resources within seismic survey area is being conducted and will be provided to SHPO along with actions proposed to avoid these resources (buffer areas). SHPO will be requested to concur with a determination of “no historic properties affected”. Global will consult with the two major private land owners in the area – Cook Inlet Region, Incorporated (CIRI) and the Ninilchik Natives Association, Incorporated (NNAI) - as well as the Ninilchik Village Tribe governing body, Ninilchik Traditional Council (NTC) to determine if they believe that any additional study of the area for historic and cultural resources is needed.

[Click here to enter text.](#)

G. Anadromous Fish Streams and Other Streams:

Global will not conduct data collection in streams; shothole setbacks from identified anadromous streams will be 100 feet or more and will follow the guidelines of the ADF&G. Frozen streams may be crossed using low pressure equipment (e.g., ATVs and/or snowmachines). Open water areas will not be crossed; access will be via existing roads or helicopter only. Global will consult with the ADF&G regarding activities in and around fish-bearing streams and will follow the ADF&G guidelines.

[Click here to enter text.](#)

**4. Associated Structures:**

- A. Structures: No permanent structures will be constructed as part of the proposed seismic survey. The seismic operation is short-term and temporary in nature, and for the most part a mobile operation. Staging areas may have some stationary shelter erected or portable work trailers for office space; any new structures developed for the project will be removed upon completion of activities.

- B. Other:

**5. Type of Equipment:**

The following equipment will be used as part of the proposed seismic survey:

Autoseis Channels	2000 / 1600
Sercel 428 Front End	1
HDR Transcribing, Downloading, and Battery Changing System	1
Boombox / Shot Pack	3
Trimble GPS Units	4
AutoSeis® Land HDR-1C nodal recording system with geophone strings	1600
Helicopter	1
Heliportable Drills/Compressors	6
AHV-IV 80K Peak Force Vibrators with Sercel VE433 Electronics	2
Vehicles (e.g., Pickup / Van)	8
Snow Machines/ ATVs (e.g., ubota RTV)	24
Forklift	1
Fuel Tanker	1
Support Trailer	1

All vehicles assigned to the crew will be equipped with first aid kits, fire extinguishers, FM communication, and Garmin GPS units. Field vehicles will be maintained, inspected, and fueled prior to departure to the line. A morning safety meeting including all crew members (including Global employees and contractors) will be held prior to work each day ("Morning Voice" communications) Communication with each vehicle or line crew are maintained throughout the day, with topographical survey and recording lines crews checking in with their respective department supervisors.

**6. Other:**

[Click here to enter text.](#)

**SECTION V: SEQUENCE AND SCHEDULE OF ACTIVITIES**

Are supplemental pages for Sequence and Schedule of Activities included in Appendix B?

☐ Yes

☒ No

Project Milestone #	Project Milestone	Proposed Start Date	Proposed End Date
1.	Obtain Permits	1/8/2016	2/29/2016
2.	Surveying & Pre-Drilling	3/1/2016	4/15/2016
3.	Data Acquisition [preferred]	3/15/2016	4/8/2016
4.	Data Acquisition [alternate]	3/15/2016	5/15/2016
5.	Demobilization [preferred]	4/4/2016	4/15/2016
6.	Demobilization [alternate]	5/10/2016	5/31/2016
7.	Note: Project schedule may vary with permit and land access permission schedules. Global has a preferred timeframe for which they would like to complete operation; those are noted as "preferred" above. Since there is a potential for the project to take longer, an "alternative" timeline has been provided.	Enter Date.	Enter Date.
8.	Enter Milestone.	Enter Date.	Enter Date.
9.	Enter Milestone.	Enter Date.	Enter Date.

10.	Enter Milestone.	Enter Date.	Enter Date.
<b>SECTION VI: LAND STATUS</b>			
<b>State of Alaska Surface Lands:</b>			
Are supplemental pages for Land Status included in Appendix B?		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Meridian, Township, Range, And Section(s): S002S011W Sections 2, 3, 7-10, 17, 18, 21 Oil And Gas Mineral Estate Lessee: Hilcorp Access Authorization(s): NA Special Use Lands: Caribou Hills Special Use Area Jointly Managed Lands: None identified Other Considerations: None identified			
<b>Project Activities/Components</b>		<b>GPS Coordinates</b>	
Caribou Hills Line 2		various	
Caribou Hills Line 4		various	
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Meridian, Township, Range, And Section(s): S001S012W Section 35 Oil And Gas Mineral Estate Lessee: Hillcorp Access Authorization(s): NA Special Use Lands: None identified Jointly Managed Lands: None identified Other Considerations: None identified			
<b>Project Activities/Components</b>		<b>GPS Coordinates</b>	
Caribou Hills Line 2		various	
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Meridian, Township, Range, And Section(s): S004S011W Sections 28-29, 33 Oil And Gas Mineral Estate Lessee: Hillcorp Access Authorization(s): NA Special Use Lands: None identified Jointly Managed Lands: None identified Other Considerations: None identified			
<b>Project Activities/Components</b>		<b>GPS Coordinates</b>	
East End Road Line 1		various	
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Meridian, Township, Range, And Section(s): S005S011W Section 4 Oil And Gas Mineral Estate Lessee: None			

Access Authorization(s): NA	
Special Use Lands: None identified	
Jointly Managed Lands: None identified	
Other Considerations: None identified	
Project Activities/Components	GPS Coordinates
East End Road Line 1	Various
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Meridian, Township, Range, And Section(s): S004S013W Section 31	
Oil And Gas Mineral Estate Lessee: Hillcorp	
Access Authorization(s): NA	
Special Use Lands: None identified	
Jointly Managed Lands: None identified	
Other Considerations: None identified	
Project Activities/Components	GPS Coordinates
Anchor River Line 6	various
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Meridian, Township, Range, And Section(s): S005S013W Sections 8, 9 16, 17, 22	
Oil And Gas Mineral Estate Lessee: Hillcorp / Section 22 has no O&G lease issued	
Access Authorization(s): NA	
Special Use Lands: None identified	
Jointly Managed Lands: None identified	
Other Considerations: Sections 8, 16, and 17 have private grazing rights under ADL 59921	
Project Activities/Components	GPS Coordinates
Anchor River Line 6	various
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SECTION VII: PERFORMANCE GUARANTY	
Bonded Company: Global Geophysical Services	
Type: Surety	Number: K08903189 Amount: \$100,000.00
Bonding Company: Westchester Fire Insurance Co.	
Mailing Address: 436 Walnut Street, P.O. Box 1000	
City: Philadelphia	State: PA Zip Code: 19106
Phone: Enter Phone.	Fax: Enter Fax. Email: Enter Email.
SECTION VIII: INSURANCE	
Comprehensive General Liability Insurance:	

Amount of Insurance: \$1,000,000 per occurrence; \$2,000,000 per annual aggregate

Insurer Name: Lockton Companies

Mailing Address: 5847 San Felipe, Suite 320

City: Houston

State: TX

Zip Code: 77057

Phone: 866-260-3538

Fax: Enter Fax.

Email: Enter Email.

#### SECTION IX: GLOSSARY OF TERMS

Are supplemental pages for Glossary of Terms included in Appendix B?

☐ Yes

☒ No

Term #	Term	Term Definition
1.	ADF&G	Alaska Department of Fish and Game
2.	ATV	All-terrain Vehicle
3.	CIRI	Cook Inlet Region, Incorporated
4.	Global	Global Geophysical Services, Inc.
5.	Hilcorp	Hilcorp Alaska, LLC
6.	KPB	Kenai Peninsula Borough
7.	NNAI	Ninilchik Natives Association, Incorporated
8.	NTC	Ninilchik Traditional Council
9.	IAGC	International Association of Geophysical Contractors
10.	SPCC	Spill Prevention, Control, and Countermeasures

#### SECTION X: CONFIDENTIALITY

The undersigned hereby requests that each page/section of this application marked confidential be held confidential under AS 38.05.035(a)(8).

APPLICANT CONTACT:

  
Signature

Jameson White

Name

Business Dev. Manager - Alaska

Title

1/28/2016

Date



## APPENDIX A: MAPS

- Map 1 Regional Location/Project Vicinity
- Map 2 Project Area
- Map 3 Project Area - confidential

## APPENDIX B: OTHER

- Supplemental Land Status



# MISCELLANEOUS LAND USE PERMIT GEOPHYSICAL EXPLORATION APPLICATION

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## SECTION VI: LAND STATUS

### State of Alaska Surface Lands:

Meridian, Township, Range, And Section(s): S005S015W Sections 1, 2, 4, 5  
Oil And Gas Mineral Estate Lessee: Hilcorp has leases in Sections 1, 2, and 4; Section 5 has no O&G lease  
Access Authorization(s): NA  
Special Use Lands: None identified  
Jointly Managed Lands: Interagency Land Management Agreement issued for sections 2, 4 & 5, respectively, ADL 19515, 65068, 65068  
Other Considerations: State Parks and Rec ownership in Sections 4 and 5; numerous private surface land owners

Project Activities/Components	GPS Coordinates
Anchor Point Line 5	various
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Meridian, Township, Range, And Section(s): S005S14W Section 6  
Oil And Gas Mineral Estate Lessee: Cook Inlet Energy holds the lease on section 6  
Access Authorization(s): NA  
Special Use Lands: None identified  
Jointly Managed Lands: None identified  
Other Considerations: None identified

Project Activities/Components	GPS Coordinates
Anchor Point Line 5	various
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Meridian, Township, Range, And Section(s): S005S015W Sections 2, 11, 13  
Oil And Gas Mineral Estate Lessee: Hilcorp has leases on all  
Access Authorization(s): NA  
Special Use Lands: None identified  
Jointly Managed Lands: None identified  
Other Considerations: Alaska State Department of Admin Enterprise Technology Service ownership in Section 11; numerous private surface land owners

Project Activities/Components	GPS Coordinates
Anchor Point Line 8	various
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<p>Meridian, Township, Range, And Section(s): S005S015W Sections 4, 16, 21</p> <p>Oil And Gas Mineral Estate Lessee: Hilcorp has leases in sections 4 and 16</p> <p>Access Authorization(s): NA</p> <p>Special Use Lands: None identified</p> <p>Jointly Managed Lands: Interagency Land Management Agreement on Section 4- ADL 65068</p> <p>Other Considerations: Numerous private landowners</p>	
Project Activities/Components	GPS Coordinates
Anchor Point Line 9	various
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<p>Meridian, Township, Range, And Section(s): S003S014W Section 10, 11, 13, 14</p> <p>Oil And Gas Mineral Estate Lessee: Hilcorp has leases on all</p> <p>Access Authorization(s): NA</p> <p>Special Use Lands: None identified</p> <p>Jointly Managed Lands: None identified</p> <p>Other Considerations: None identified</p>	
Project Activities/Components	GPS Coordinates
Star Line 7	various
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<p>Meridian, Township, Range, And Section(s): S004S014W Section 29</p> <p>Oil And Gas Mineral Estate Lessee: Hilcorp has lease</p> <p>Access Authorization(s): NA</p> <p>Special Use Lands: None identified</p> <p>Jointly Managed Lands: None identified</p> <p>Other Considerations: Numerous private landowners</p>	
Project Activities/Components	GPS Coordinates
Star Southwest Line 3	various
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SECTION VI: LAND STATUS	
State of Alaska Surface Lands:	
Are supplemental pages for Land Status included in Appendix B? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
<p>Meridian, Township, Range, And Section(s): S004S015W Sections 24, 26</p> <p>Oil And Gas Mineral Estate Lessee: Hilcorp has lease on section 26</p>	

Access Authorization(s): NA  
Special Use Lands: None identified  
Jointly Managed Lands: None identified  
Other Considerations: UA surface ownership Section 24; numerous private landowners

Project Activities/Components	GPS Coordinates
Star Southwest Line 3	various
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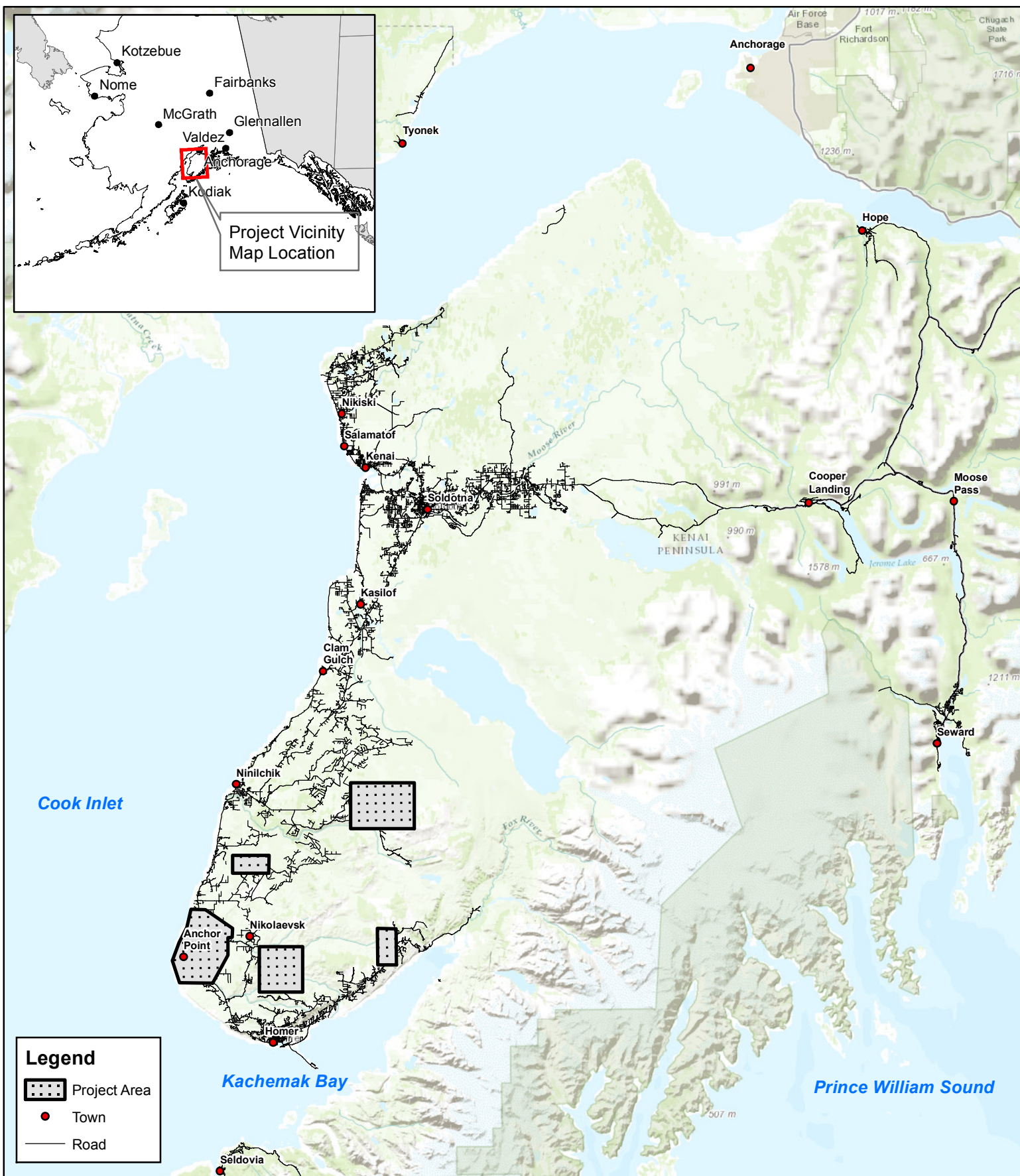
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<b>Meridian, Township, Range, And Section(s):</b> Click here to enter text. <b>Oil And Gas Mineral Estate Lessee:</b> Click here to enter text. <b>Access Authorization(s):</b> Click here to enter text. <b>Special Use Lands:</b> Click here to enter text. <b>Jointly Managed Lands:</b> Click here to enter text. <b>Other Considerations:</b> Click here to enter text.	
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<b>Project Activities/Components</b>	<b>GPS Coordinates</b>
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0 10 20 30 40 50 Miles



Coordinate System: NAD 1983 2011 StatePlane Alaska 4 FIPS 5004 Feet

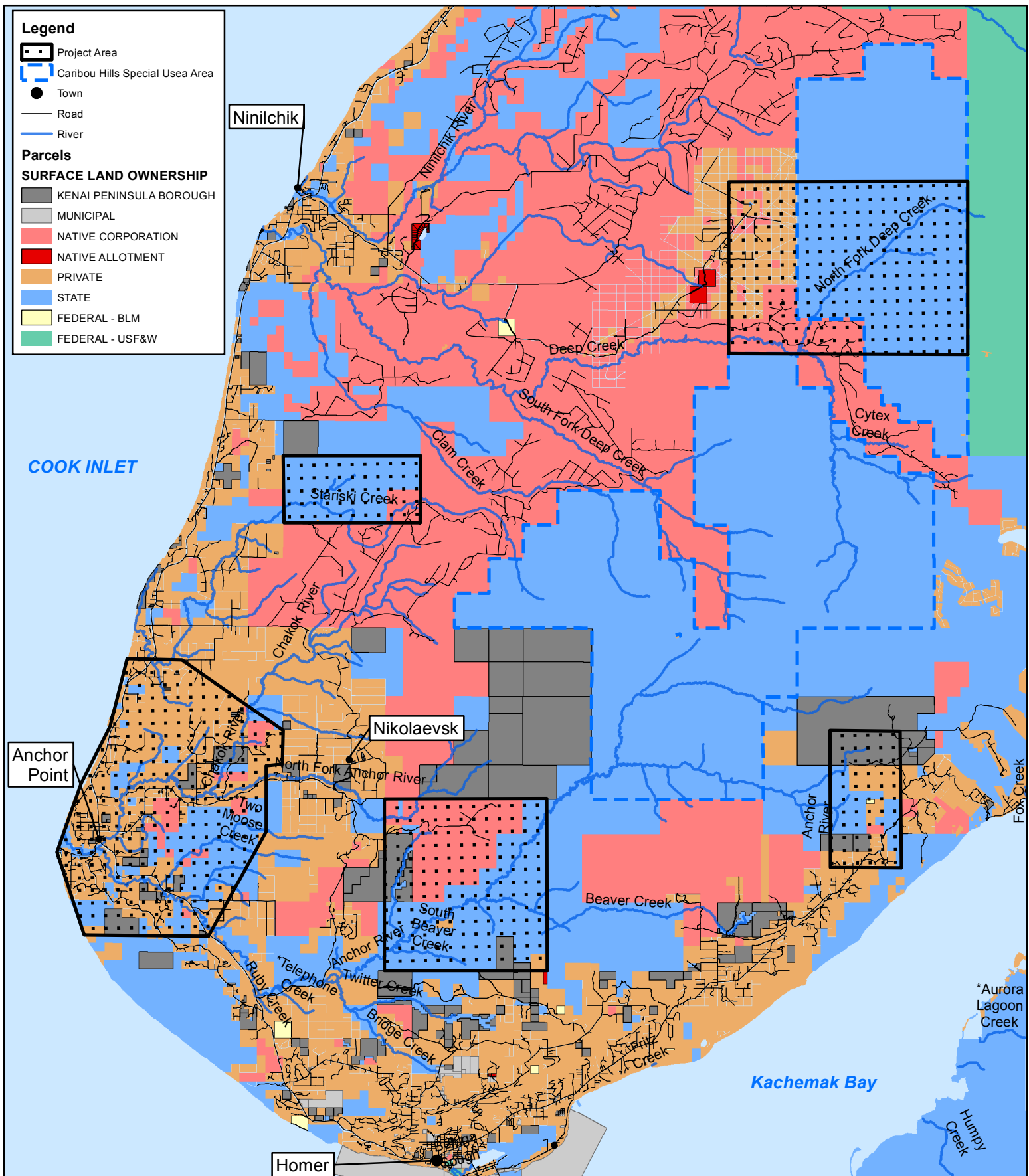
# Global Geophysical Services South Kenai 2D Seismic Survey Project Vicinity

Date:  
January 2016

Fig. No:  
1

By: JKG





Note: Parcel location and ownership per Kenai Peninsula Borough records.

0 5 10 Miles

Coordinate System: NAD 1983 2011 StatePlane Alaska 4 FIPS 5004 Feet



## Global Geophysical Services South Kenai 2D Seismic Survey Project Areas

Date:  
January 2016

Fig. No:  
2

By: JKG